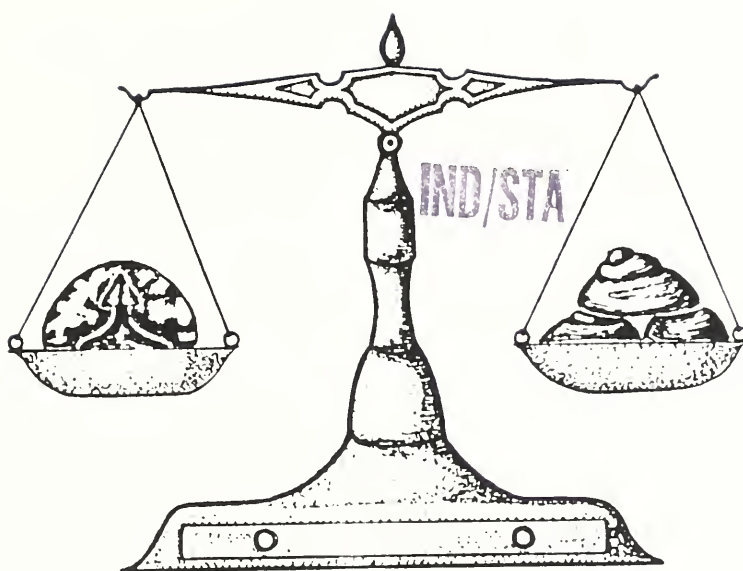


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THE SCALE



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INFORMATION ON ISSIS-V

from Michael Kosztarab

Dr. Antonio Tranfaglia reported good progress with the Fifth International Symposium of Scale Insect Studies (ISSIS-V) to be held in Portici, Italy, between June 24-28, 1986. By July 1985 people from 11 countries had preregistered. If you have not returned your form to him as yet, please do so as soon as possible, because he wanted it by December 1, 1985. If it is lost, just send a note with the title of your paper. If you need a personal invitation from the organizers, please request one by air mail from Prof. A. Tranfaglia, Istituto di Entomologia Agraria, Via Università, 100-80055 Portici (NA), Italy, but be sure to give him the title of your talk. If your fiscal year starts with July 1, you may be able to request payment for this trip from the next fiscal year's budget. There are no outside funds to pay for the cost of our participation.

You may want to combine this event with (1) studying the famous scale insect collection housed at the above institution and/or (2) visiting local historic and scenic attractions. The scale collection includes precious types and other materials from Berlese, Silvestri, Leonardi, Buchner, also Lupo (in part), not to mention the present day workers' collections. It is worldwide in scope. Portici is a beautiful town just south of Naples, with the University of Agriculture housed in the old Royal Summer Palace. Touring the University of Agriculture and the adjoining sericultural and apicultural research institutes can make this an educational event, as it did for me, when I visited there in 1972. Portici and the general area along the Tyrrhenian sea coast overlooking Vesuvius, historical sites such as Pompei, and the lovely romantic places such as Sorrento and the Island of Capri, can make this also a wonderful combination vacation-work trip for you and your family. Don't miss it; even if you have to put up most or all, of the cost, this will be a very memorable and productive meeting. In some countries the cost of attending such professional meetings, if officially approved, but without

funding, can be used as a tax-deduction. There usually are inexpensive air flights from your area to Rome if you shop around and make reservations early enough.

The timing of the Symposium is ideal, because in June we avoid most of the tourist crowds, higher prices, and the mid-summer heat. There are good train, airplane and bus connections between Rome and Naples.

I am looking forward to meeting all coccidologists and their families in Portici next June.

Addendum to "Information on ISSIS-V"

I have just received from Professor E. Tremblay on December 13, 1985, a copy of the ISSIS-V draft program with a list of presentations and I would like to share this information with those interested in it.

There are 50 slots scheduled for 15 minute presentations (I am assuming these are meant for 12 minutes with 3 minutes for discussion) during the days of June 24, 25, and 26. Visits are planned to the Institute of Agricultural Entomology in Portici, also possibly during the free afternoon of June 26 to the excavations of Herculeanum and Pompeii. June 27 (Friday) is reserved for an all day excursion, while June 28 (Saturday) includes more presentations and a round table discussion, also the conclusions of the meetings by noon.

The titles already received were included in the following four subject categories: Phylogeny and Taxonomy (14), Faunistics (11), Morphology (7), and Coccoidea of Economic Importance and their Natural Enemies (16). No title was received for one talk as yet, and I know some additional colleagues who are planning to send their titles soon.

It appears at present that ISSIS-V will be the best attended international coccidology meeting, because there are already 48 presentations listed by 48 speakers (two with double authorship). The speakers are from the following 16 countries (number of presentations is in parenthesis): Australia (2), China (5), Egypt (4), Ethiopia (1), Great Britain (3), Greece (1), Hungary (1), India (7), Israel (1), Italy (7), New Zealand (1), Philippines (1), Poland (2), Taiwan (1), USA (5), and USSR (6). All papers presented at ISSIS-V will be published by the Institute of Agricultural Entomology in one of their bulletin series.

The finalized program, with more information, will be sent to you soon. In the meantime we would like to express our thanks to Professors Tranfaglia, Tremblay, and Viggiani for undertaking the organization and hosting of this important milestone in the history of coccidological research and education in the world.

Michael Kosztarab

NOTES FROM VIRGINIA TECH
M. Kosztarab

Current Research: Our Coccidology Laboratory at Virginia Polytechnic Institute and State University initiated a revision of the North American Chionaspis this year. Please help us by lending preserved material from your private and/or institutional collection. We also can utilize samples collected periodically from your local Chionaspis populations for biological information on life cycle, host-preferences, parasites, etc. and for rearing adult males.

New Student: Mr. Liu Tong-xian, of the Agricultural University of Shandong, China, is joining us for MS degree research on December 15, 1985. He is Professor Tang Fang-teh's former student.

Publications: After 10 years of work, two manuscripts went to the printer recently: (1) Scale Insects of Central Europe. Publisher - Akademiai Kiado, Budapest. Coauthored by M. Kosztarab and F. Kozar. It may be printed by the end of 1986; (2) The Nearctic Kermesidae (actually includes two separate titles). Publisher - Va. Polytech. Inst. & State Univ. Publication 85-11, 261 pages. Coauthored by R. C. Baer, S. W. Bullington and M. Kosztarab. Expect it ready by January 1986. It will be mailed automatically on an exchange basis to all coccidologists who are on our mailing list. If you don't receive it by July 15, please let me know.

The Third Supplement to an Annotated List of Generic Names of the Scale Insects is in final preparation in coauthorship with Yair Ben-Dov. Suggestions for an inexpensive and fast publishing outlet will be appreciated. Please let us know about any new genera that were proposed and printed in an obscure journal or that appeared in an article that was not sent to us for cataloging.

The first part of our coccoid slide collection inventory, prepared mainly due to the efforts of Ms. Mary Rhoades, is being printed in this issue, and we hope to see the second part printed next year.

General Comments: I was pleased to see published in the recent SCALE issues the results of some work volunteered and pledged by coccidologists at the ISSIS-IV meeting in Budapest (Kosztarab 1984:416-418. Summary of two business meetings.). Some of you are completing such manuscripts now. Please send these articles and materials of general interest to all coccidologists, also periodic reports on your work to D. R. Miller for inclusion in the next SCALE. Dug needs more help from all of us in the future because his studies have increased with his recent appointment to an administrative position, Research Leader of the Systematic Entomology Laboratory, Agricultural Research Service, U.S. Dept. of Agric. Congratulations from all of us, who depended heavily on his professional help in the past. We just hope that he still finds to further needed coccidological work.

The following information came from Willem Hogenes, Instituut voor Taxonomische Zoologie, Zoologisch Museum, Universiteit van Amsterdam:

"With this letter I send you my translation of Dr. A. Reyne's obituary. Perhaps you remember that I promised you to make one. I did not have much time to do so, but nevertheless I completed it some weeks ago. As you will notice, the text is just translated and not rewritten, so it is translated Dutch. Please, if you want to send this translation to your Coccoidea-friends, transform it into more genuine English (or

American if there is a difference in style between those two "languages"). Anyway I hope that it is useful for you and other "coccidologists."

Dr. A. Reyne - Obituary: 18 VI 1890 - 24 V 1967

On May 29 family and friends laid Dr. Adriaan Reyne to rest in the cemetery "Westerveld" (near Velsen and Haarlem).

He was a devoted member, but as walking became more and more difficult, we did not see much of him at society activities. Nevertheless he continued energetically to work on his favorite study, the scale-insects (Coccidae). More and more he did this work at home, but until his last illness he visited the Zoological Museum of Amsterdam in the Zeeburgerdijk from time to time where he had a worktable.

Although he was quite old, he lived and worked in great unpretentiousness, and had a great sense of humor. He spoke with enthusiasm about his many experiences in the tropics. He was the only Dutch entomologist who had worked both in Surinam and in the Dutch East Indies (now Indonesia).

A few months ago he was suddenly admitted to the hospital for what should have been a minor operation. However, we gradually realized that there was no hope for recovery.

After his early schooling he was in military service during the first World War and only in 1918 could he start working as an entomologist at the "Laadbouwproefstation" (Agricultural Research Centre) in Surinam, under directorship of Prof. D. G. Stahel. He stayed there until 1924 and made a special study of the control of the "cacao-thrips" (a thysanopteran specialized on Cacao?). During this time he developed several interests and wrote among other things a fascinating booklet on the "Geschiedenis der Cacaocultuur in Suriname" (History of the Cacao-cultures in Surinam).

In 1924 he began study in Europe and on December 15th, 1926 he received his Doctorate based on his thesis (Onderzoekingen over de monddelen der Thysanopters" (researchers on the mouth-parts of Thysanoptera), a profound study, that is still of great value.

In 1927 he left for the Dutch East Indies, where he studied the scale insect pest (Aspidiotus) of cocos trees on the island of "Groot Sangihe." This was the beginning of his later specialization on scale insects.

There was a great need for more research in the cocos culture and an Experimental Station in Menado in northern Celebes was established and Reyne became the chief.

In 1933 he retired and settled in The Netherlands, where he studied subjects that interested him. At first his research concerned cocos trees, like the chapter "De cocospalm" in the handbook by Van Hall & Van de Koppel. But also other subjects arose, such as the cocoscrab (*Birgus latro* L.) and the so called "cocos-pearls." He also studied the enlargement of pools originated after breaks of the dykes.

After 1947 Reyne started working more and more on scale insects. This was requested by Dr. D. Hille Ris Lambers, who had his own hands full with the study of aphids. Reyne worked on the scale insects with great dedication. He maintained an active correspondence with other coccidologists and had a good international reputation. Many papers were published. Many people have made good use of his review of the Dutch Coccidae, published by the "Koninklijke Nederlandse Natuurhistorische Vereniging" (Royal Dutch Natural History Society)(1957).

During meetings of our society he often brought interesting material with him of which he told many particulars. Whoever asked him for information always got very detailed answers. Willingly he gave others the chance to profit from his enormous knowledge on many subjects, and everyone who met him was struck by his honesty and open-heartedness.

For himself he took very little and he lived in great simplicity. Silently however he did much good and only a few insiders know how often he made other people happy with moral or material support. A good man, a loyal friend, an appreciated colleague has left us.

In the name of friends and colleagues
P.M.L. Tammes, Wageningen
G.L. van Eyndhoven, Amsterdam

from Ent. Ber., A'dam, 27(1967): 121-122
translation by Willen Hogenes

THE COCCOIDEA SLIDE COLLECTION AT VIRGINIA POLYTECHNIC INSTITUTE
AND STATE UNIVERSITY, BLACKSBURG

Part I - Families Aclerididae through Diaspididae

Michael Kosztarab and Mary H. Rhoades

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The collection was begun in 1962 with M. Kosztarab's appointment as curator of the insect collections in this department and with the donation of his private collection. The Coccoidea collection at the present includes approximately 54,000 specimens mounted on about 21,000 slides, including 561 types and 483 voucher specimens. The voucher specimens resulted from research completed in our coccidology laboratory. The specimens, with few exceptions, are permanently mounted in Canada balsam. A large part of the slides resulted from research work completed with M. Kosztarab by his former graduate students: R. G. Baer, R. C. Brachman, S. W. Bullington, A. D'Ascoli, A. B. Hamon, J. O. Howell, P. L. Lambdin, M. L. Williams, P. A. Willoughby, and S. P. Yang. Slides from the work of D. K. Pollet, a former PhD candidate in this department, and S. Afifi, a postdoctoral fellow who worked with M. Kosztarab, are also in our collection. Several colleagues who retired from this department donated their slide collections to us, namely J. M. Amos, M. L. Bobb, J. McD. Grayson, C. H. Hill, and W. S. Hough.

A significant part of the paratype material along with other valuable slides was donated by R. F. Wilkey. Many other people, too numerous to list, sent us donations of slides throughout the past 24 years.

The Coccoidea collection is of world-wide scope and as such its significance for researchers was recognized by the National Science Foundation providing a grant (BSR-8317213) for its improvement and greater utilization, along with other parts of the university's insect collection.

The original spelling of generic and specific names found on slides has been retained, except for correcting a few obvious misspellings.

Requests for loans of Coccoidea material should be sent to M. Kosztarab. Loans are made for a period of six months, unless requested and approved otherwise. Holotypes, and part of the paratypes resulting from our work and/or from specimens loaned from this collection, are, as a rule, donated to the U.S. National Museum of Natural History.

Our slide-mounted specimens are often complemented by dry or alcohol-preserved material in our collection. Exchanges of new material for our duplicate slides are encouraged.

TYPE ABBREVIATIONS: C=Cotype, N=Neotype, P=Paratype or Paralectotype,
T=Type material, TT=Topotype

STAGE ABBREVIATIONS: The number of specimens and their stages are given in parenthesis for type slides. f=adult female, m=adult male,
n=nymph, p=pupa

Genus	Species	Author	No. of Types	No. of Slides
ACLERDIDAE				
<i>Aclerda</i>	<i>andropogonis</i>	McConnell		1
<i>Aclerda</i>	<i>ariditatis</i>	Ferris	1(1f)P	
<i>Aclerda</i>	<i>arizonica</i>	McConnell	1(1f)P	
<i>Aclerda</i>	<i>arundinarinae</i>	McConnell		5
<i>Aclerda</i>	<i>attenuata</i>	Ferris	1(1f)P	
<i>Aclerda</i>	<i>balachowskyi</i>	McConnell	1(1f)P	
<i>Aclerda</i>	<i>berlesii</i>	Buffa		1
<i>Aclerda</i>	<i>californica</i>	(Ehrhorn)		1
<i>Aclerda</i>	<i>chiriquiensis</i>	McConnell	1(1f)P	
<i>Aclerda</i>	<i>chusqueae</i>	McConnell	1(1f)P	
<i>Aclerda</i>	<i>distorta</i>	Green		1
<i>Aclerda</i>	<i>ferrisi</i>	McConnell	1(1f)P	
<i>Aclerda</i>	<i>holci</i>	Teague		1
<i>Aclerda</i>	<i>ischaemi</i>	Ramakrishna	2(2f)P	1
<i>Aclerda</i>	<i>marylandica</i>	McConnell	2(2f)P	
<i>Aclerda</i>	<i>mexicana</i>	McConnell		1
<i>Aclerda</i>	<i>oaxacaensis</i>	McConnell	1(1f)P	
<i>Aclerda</i>	<i>pasquieri</i>	Balachowsky		1
<i>Aclerda</i>	<i>sacchari</i>	Teague		1
<i>Aclerda</i>	<i>santensis</i>	Hempel	1(1f)P	
<i>Aclerda</i>	<i>simplicis</i>	McConnell	1(1f)P	
<i>Aclerda</i>	<i>subterranea</i>	Signoret		2
<i>Aclerda</i>	<i>takahashii</i>	Kuwana		1
<i>Aclerda</i>	<i>texana</i>	McConnell	1(1f)P	
<i>Aclerda</i>	<i>tillandsiae</i>	Howell	5(5f)P	
<i>Aclerda</i>	<i>tokionis</i>	(Cockerell)		2
<i>Aclerda</i>	<i>xalapenseae</i>	McConnell		1
<i>Aclerda</i>	undetermined			41
<i>Nipponaclerda</i>	<i>biwakoensis</i>	(Kuwana)	1(1f)C	1
<i>Rhodesaclerda</i>	<i>combreticola</i>	McConnell	1(1n)P	
<i>Rhodesaclerda</i>	<i>halli</i>	McConnell	2(1f, 2n)P	
<i>Aclerdidae</i>	undetermined			9
APIOMORPHIDAE				
<i>Apiomorpha</i>	<i>umbellata</i>	(Froggatt)		1
<i>Apiomorpha</i>	undetermined			6
ASTEROLECANIIDAE				
<i>Asterolecanium</i>	<i>arabidis</i>	(Signoret)		10
<i>Asterolecanium</i>	<i>bambusae</i>	(Boisduval)		11
<i>Asterolecanium</i>	<i>epidendri</i>	(Bouche)		2
<i>Asterolecanium</i>	<i>grandiculum</i>	Russell		1
<i>Asterolecanium</i>	<i>inlabefactum</i>	Russell		1
<i>Asterolecanium</i>	<i>loranthi</i>	Green		3
<i>=A.</i>	<i>miliaris</i>			
<i>Asterolecanium</i>	<i>minus</i>	Lindinger		15
<i>Asterolecanium</i>	<i>palmae</i>	Cockerell		1
<i>Asterolecanium</i>	<i>pustulans</i>	(Cockerell)		9

Asterolecanium	puteum	Russell		12
Asterolecanium	pyriforme	(Froggatt)		7
Asterolecanium	quercicola	(Bouche)		1
Asterolecanium	robustum	Green		3
Asterolecanium	undetermined			14
Frenchia	banksiae	Lambdin & Kosztarab	3(3f, 2n, 1p)P	3
Frenchia	casuarinae	Maskell		2
Frenchia	semiocculta	Maskell	1(1f)P	
Grammococcus	adetocorymbus	Miller & Lambdin		1
Grammococcus	corymbus	Miller & Lambdin	1(3f)P	
Mycetococcus	undetermined			1
Palmaspis	phoenicis			2
Pollinia	pollini	(Costa)		4
Sclerosococcus	bromeliae	McKenzie	1(1f)P	
Asterolecaniidae	undetermined			-25
CEROCOCCIDAE				
Cerococcus	albospicatus	Green		5
Cerococcus	andinus	Leonardi		3
Cerococcus	artemisiae	(Cockerell)		24
Cerococcus	baccharidis	(Hempel)	2(3f)P	8
Cerococcus	badius	Leonardi	4(8f)P	3
Cerococcus	catenarius	Fonseca	1(1f)P	
Cerococcus	cistarum	Balachowsky		1
Cerococcus	corokiae	(Maskell)	2(4f)P	2
Cerococcus	cycliger	Goux		4
Cerococcus	dekley	Kosztarab & Vest	2(2f)P	24
Cerococcus	dumonti	Vayssiere		1
Cerococcus	eremobius	(Scott)	1(1f)P	2
Cerococcus	ficoides	Green		6
Cerococcus	froggatti	Morrison & Morrison		3
Cerococcus	indicus	(Maskell)	2(2f)TT	18
Cerococcus	intermedius	Balachowsky		1
Cerococcus	javanensis	Lambdin & Kosztarab	2(2f, 13n)P	
Cerococcus	kalmiae	Ferris		13
Cerococcus	koebeli	(Cockerell)		8
Cerococcus	multipororum	Lambdin & Kosztarab	1(1f)P	
Cerococcus	oranensis	Balachowsky		1
Cerococcus	paradoxus	(Maskell)		9
Cerococcus	parrotti	(Hunter)		31
Cerococcus	perovskiae	Archangelskaya	1(1f)TT	
Cerococcus	punctiferus	(Green)	2(6f)P	19
Cerococcus	quercus	Comstock	2(3f)P, 2(14n)T	15
Cerococcus	roseus	Green	3(4f)P	2
Cerococcus	royenae	Brain	1(2f)P	1
Cerococcus	russellae	Kosztarab & Vest		1
Cerococcus	stellatus	(Maskell)		4

Cerococcus	theydoni	Hall	4
Cerococcus	zapotlanus	(Cockerell)	1
Cerococcus	undetermined		21
Solenophora	fagi	(Maskell)	3
CONCHASPIDIDAE			
Conchaspis	angraeci	Cockerell	13
Conchaspis	capensis	(Linnaeus)	1
Conchaspis	ekebergiae	Munting	1(1f)P
Conchaspis	lata	Hempel	6(n)
COCCIDAE			
Acanthopulvinaria	undetermined		2
Ceroplastes	ceriferus	(Anderson)	417
Ceroplastes	cirripediformis	Comstock	2
Ceroplastes	destructor	(Newstead)	2
Ceroplastes	dugesii	Lichtenstein	1
Ceroplastes	floridensis	Comstock	82
Ceroplastes	irregularis	Cockerell	6
Ceroplastes	japonica	Green	1
Ceroplastes	mexicanus	Cockerell	1
Ceroplastes	nakaharai	Gimpel	3(6f)P
Ceroplastes	pseudoceriferus	Green	2
Ceroplastes	rubens	Maskell	2
Ceroplastes	rusci	(Linnaeus)	7
Ceroplastes	sinensis	Del Guercio	157
Ceroplastes	undetermined		32
Coccus	acuminatus	(Signoret)	1
Coccus	acutissimus	(Green)	2
Coccus	aethiopicus	DeLotto	1
Coccus	consimilis	DeLotto	2
Coccus	ehretiae	(Brain)	1
Coccus	elongatus	(Signoret)	6
Coccus	hesperidum	(Linnaeus)	48
Coccus	longulus	(Douglas)	4
Coccus	mangiferae	(Green)	2
Coccus	pseudomagnoliarum	(Kuwana)	3
Coccus	viridis	(Green)	10
Coccus	viridulus	DeLotto	1
Coccus	undetermined		4
Cryptostigma	undetermined		1
Eriopeltis	coloradensis	Cockerell	1
Eriopeltis	festucae	(Fonscolombe)	8
Eriopeltis	lichtensteinii	Signoret	3
Eriopeltis	undetermined		13
Eucalymnatus	tessellatus	(Signoret)	6
=E.	perforatus	(Newstead)	1

Eulecanium	caryae	(Fitch)	4
Eulecanium	cerasorum	(Cockerell)	3
Eulecanium	kunoensis	(Kuwana)	1
Eulecanium	tiliae	(Linnaeus)	2
=Lecanium	coryli	(Linnaeus)	1
Filippia	follicularis	(Targioni-Tozzetti)	1
Filippia	oleae	(Costa)	1
Filippia	viburni	(Signoret)	1
Inglisia	chelonoides	Green	1
Inglisia	vitrea	Cockerell	4
Kilifia	americana	(Ben-Dov)	2(2f)P
Lecanium	undetermined		210
Lecanochiton	metrosideri	Maskell	1
Lecanopsis	festucae	Borchsenius	1
Lecanopsis	porifera	Borchsenius	2
Luzulaspis	borchsenii	Rehacek	1
=L.	scotica		
Luzulaspis	frontalis	Green	1
Luzulaspis	kosztarabi	Kozar & Koteja	1
Luzulaspis	luzulae	(Dufour)	5
Luzulaspis	nemorosa	Koteja	2
Luzulaspis	pieninica	Koteja	1
Luzulaspis	rajae	Kozar	1(2f)P
Mallococcus	sinensis	(Maskell)	1
Mesolecanium	deltae	Lizer	1
Mesolecanium	nigrofasciatum	(Pergande)	76
Metaceronema	undetermined		2
Neolecanium	cornuparvum	(Thro)	34
Neolecanium	silverai	(Hempel)	1
Neopulvinaria	imeretina	Hadzibejli	1
Palaeolecanium	bituberculatum	(Targioni-Tozzetti)	4
Parafairmairia	gracilis	Green	5
Paralecanium	undetermined		1
Parasaissetia	nigra	(Nietner)	27
Parthenolecanium	corni	(Bouche)	9
Parthenolecanium	fletcheri	(Cockerell)	5
Parthenolecanium	persicae	(Fabricius)	16

Parthenolecanium	pruinorum	(Coquillett)	1
Parthenolecanium	quercifex	Fitch	1
Parthenolecanium	rufulum	(Cockerell)	2
Parthenolecanium	undetermined		1
Philephedra	ephedrae	(Cockerell)	1
Philephedra	lutea	(Cockerell)	1
Physokermes	concolor	Coleman	1
Physokermes	hemicryphus	(Dalman)	15
Physokermes	inopinatus	Danzig & Kozar	1
Physokermes	insignicola	(Crawford)	1
Physokermes	piceae	(Schrank)	5
Physokermes	undetermined		1
Protopulvinaria	longivalvata	Green	1
Protopulvinaria	mangiferae	(Green)	3
Protopulvinaria	pyriformis	(Cockerell)	15
Pseudophilippia	quaintancii	(Cockerell)	23
Pulvinaria	acericola	(Walsh & Riley)	33
Pulvinaria	betulae	(Linnaeus)	3
Pulvinaria	bigeloviae	(Cockerell)	3
Pulvinaria	delottoi	Gill	2(2f)P
Pulvinaria	ericicola	McConnell	7
Pulvinaria	floccifera	(Westwood)	28
Pulvinaria	greeni	Froggatt	1
Pulvinaria	hydrangeae	Steinweden	3
Pulvinaria	innumerabilis	(Rathvon)	59
Pulvinaria	mesembrianthemis	(Vallot)	1
Pulvinaria	occidentalis	Cockerell	1
Pulvinaria	phaeae	Lull	1
Pulvinaria	psidii	Maskell	4
Pulvinaria	regalis	Canard	2
Pulvinaria	urbicola	Cockerell	1
Pulvinaria	undetermined		29
Rhizopulvinaria	grassei	(Balachowsky)	1
Rhizopulvinaria	spinifera	Borchsenius	1
Rhodococcus	rosophilus	Borchsenius	1
Saissetia	coffeae	(Walker)	14
Saissetia	hemisphaerica	(Targioni-Tozzetti)	13
=S.	coffeae		
Saissetia	miranda	(Cockerell & Parrott)	8
Saissetia	oleae	(Olivier)	1
Saissetia	undetermined		8
Sphaerolecanium	prunastri	(Fonscolombe)	1

Toumeyella	liriodendri	(Gmelin)		5
Toumeyella	mirabilis	Cockerell		1
Toumeyella	nectandrae	Hempel		1
Toumeyella	parvicornis	(Cockerell)		8
Toumeyella	paulista	Hempel	1(1n)C	
Toumeyella	pini	(King)		3
Toumeyella	pinicola	Ferris		1
Vinsonia	stellifera	(Westwood)		10
Vittacoccus	longicornis	Green		1
Coccidae	undetermined			125
CRYPTOCOCCIDAE				
Cryptococcus	aceris	Borchsenius		3
Cryptococcus	fagisuga	(Lindinger)		25
Cryptococcus	williamsi	Kosztarab & Hale	1(1f)P	27
Pseudochermes	fraxini	(Kaltenbach)		3
DACTYLOPIIDAE				
Dactylopius	coccus	Costa		4
Dactylopius	confusus	(Cockerell)		8
Dactylopius	indicus	Green		1
Dactylopius	tomentosus	(Lamarck)		2
Dactylopius	undetermined			2
DIASPIDIDAE				
Abgrallaspis	comstocki	(Johnson)		4
Abgrallaspis	cyanophylli	(Signoret)		15
Abgrallaspis	degenerata	(Leonardi)		1
Abgrallaspis	fraxini	(McKenzie)		2
Abgrallaspis	furcillae	(Brain)		1
Abgrallaspis	howardi	(Cockerell)		8
Abgrallaspis	ithacae	(Ferris)		33
Abgrallaspis	oxycoccus	(Woglum)		2
Abgrallaspis	quercicola	(Ferris)		1
Abgrallaspis	townsendi	(Cockerell)		68
Abgrallaspis	undetermined			7
Acanthomytilus	chui	Takagi	1(2f)T	
Acutaspis	agavis	(Townsend & Cockerell)		1
Acutaspis	albopicta	(Cockerell)		1
Acutaspis	decorosa	Ferris	1(2f)T	
Acutaspis	morrisonorum	Kosztarab	2(2f)P	19
Acutaspis	perseae	(Comstock)		5
Acutaspis	scutiformis	(Cockerell)		1
Acutaspis	subnigra	McKenzie	1(1f)T	

Acutaspis	tingi	McKenzie		1
Acutaspis	umbonifera	(Newstead)		1
Acutaspis	undetermined			4
Adiscodiaspis	tamaricicola	Malenotti		1
Africaspis	caffra	(Brain)		1
Africaspis	chionaspiformis	(Newstead)		1
Africaspis	gala	Munting		1
Ambigaspidis	lycii	(Brain)		1
Anamaspidis	lowi	(Colvee)		3
Anamefiorinia	casuarinae	(Maskell)		1
Ancepaspis	edentata	(Ferris)	1(1f)T	
Ancepaspis	quadridentata	Ferris	1(3f)T	
Ancepaspis	tridentata	Ferris		1
Andaspis	crawii	(Cockerell)		1
Andaspis	hawaiiensis	(Maskell)		2
Andaspis	punicae	(Laing)		1
Andaspis	viticis	Takagi	1(1f)P	
Annulaspis	polygona	Ferris	10(25f)T	
Anoplaspis	maskelli	Morrison & Morrison		1
Anoplaspis	metrosideri	(Maskell)		1
Aonidia	atlantica	Ferris	2(2f)T	
Aonidia	lauri	(Bouche)		1
Aonidia	nullispina	Munting		1
Aonidia	rhusae	Brain		1
Aonidia	sclerosa	Munting	1(1f)T	
Aonidia	shastae	(Coleman)		4
Aonidia	yomae	Munting	1(1f)T	
Aonidiella	aurantii	(Maskell)		3
Aonidiella	citrina	(Coquillett)		8
Aonidiella	comperei	McKenzie		1
Aonidiella	gracilis	(Balachowsky)	1(1f)T	
Aonidiella	inornata	McKenzie		
Aonidiella	messengeri	McKenzie	1(2f)P	
Aonidiella	orientalis	(Newstead)		12
Aonidiella	taxus	Leonardi		8
Aonidomytilus	albus	(Cockerell)		1
Aonidomytilus	bilobis	Ferris		2
Aonidomytilus	ceonothi	Ferris		1
Aonidomytilus	concolor	(Cockerell)		1
Aonidomytilus	crookiae	(Ferris)		2
Aonidomytilus	hyperici	Ferris		2
Aonidomytilus	multiglandulatus	Kosztarab	1(3f)P	

Aonidomytilus	sabatius	Tippins	2
Aonidomytilus	solidaginis	(Hoke)	1
Aonidomytilus	variabilis	Ferris	1(1f)T
Archangelskaia	ephedrae	(Lindinger)	1
Artemisaspis	abditia	Munting	1(1f)T
Arundaspis	secreta	Borchsenius	1
Aspidaspis	arctostaphyli	(Cockerell & Robinson)	1
Aspidaspis	densiflorae	Bremner	1
Aspidaspis	ithacae	(Ferris)	1(2f)T
Aspidaspis	tubulifera	Balachowsky	2(2f)T
Aspidiella	hartii	(Cockerell)	1
Aspidiella	rigida	Ferris	1(1f)T
Aspidiella	sacchari	(Cockerell)	5
Aspidiotus	cryptomeriae	Kuwana	3
Aspidiotus	destructor	Signoret	12
Aspidiotus	excisus	(Green)	- 2
Aspidiotus	hedericola	Leonardi	1(1f)T
Aspidiotus	nerii	Bouche	19
Aspidiotus	pangoensis	Doane & Ferris	1
Aspidiotus	pazamezii	Gerson	1(1f)P
Aspidiotus	spinosus	Comstock	2
Aspidiotus	tridentifer	Ferris	1(1f)T
Aspidiotus	undetermined		3
Aulacaspis	actinodaphnes	(Takagi)	1(1f)T
Aulacaspis	fulleri	(Cockerell)	1
Aulacaspis	madiunensis	(Zehntner)	1
Aulacaspis	maesae	Takagi	1(1f)T
Aulacaspis	mischocarpi	(Cockerell & Robinson)	2(2f)T
Aulacaspis	pallida	(Robinson)	2(2f)T
Aulacaspis	robusta	Takahashi	1
Aulacaspis	rosae	(Bouche)	47
Aulacaspis	saigusai	Takagi	1(1f)T
Aulacaspis	sumatrensis	Green	1
Aulacaspis	thoracica	(Robinson)	1(1f)T
Aulacaspis	tubercularis	(Newstead)	6
Aulacaspis	yabunikkei	Kuwana	1
Avidovaspis	phoenicis	Gerson & Davidson	2
Balaspis	faurei	Hall	1
Berlesaspidotus	bambusarum	(Cockerell)	1
Carulaspis	juniperi	(Bouche)	112
Carulaspis	minima	(Targioni-Tozzetti)	7
Carulaspis	visci	(Schrank)	5
Carulaspis	undetermined		10

Chionaspis	acericola	Hollinger		4
Chionaspis	americana	Johnson	2(6f)T	120
Chionaspis	caryae	Cooley		5
Chionaspis	corni	Cooley		7
Chionaspis	dendrobii	(Kuwana)		1
Chionaspis	etrusca	Leonardi		1
Chionaspis	furfura	(Fitch)		47
Chionaspis	gleditsiae	Sanders		26
Chionaspis	heterophyllae	Cooley		44
Chionaspis	kosztarabi	Takagi & Kawai	3(13f)P	105
Chionaspis	lepineyi	Balachowsky		1
Chionaspis	lintneri	Comstock		6
Chionaspis	longiloba	Cooley		1
Chionaspis	nyssae	Comstock		56
Chionaspis	ortholobis	Comstock		2
Chionaspis	parkii	Hollinger		22
Chionaspis	pinifoliae	(Fitch)		95
Chionaspis	salicis	(Linnaeus)		13
Chionaspis	salicisnigrae	(Walsh)		15
Chionaspis	sassceri	(Cockerell & Robbins)		4
Chionaspis	wistariae	Cooley		4
Chionaspis	undetermined			11
Chortinaspis	chortina	(Ferris)	1(1f)T	
Chortinaspis	consolidata	Ferris	1(1f)T	
Chortinaspis	subchortina	(Laing)		1
Chortinaspis	subterranea	Signoret		2
Chrysomphalus	ansei	(Green)	1(1f)T	
Chrysomphalus	aonidum	(Linnaeus)		15
Chrysomphalus	aurantii	Maskell		2
Chrysomphalus	bifasciculatus	Ferris	1(1f)T	20
Chrysomphalus	dictyospermi	(Morgan)		12
Chrysomphalus	prosimus	Banks		1
Chrysomphalus	rubribullatus	(Froggatt)		1
Chrysomphalus	variabilis	McKenzie	1(1f)T	
Circulaspis	bibursella	Ferris	11(19f)T	
Circulaspis	canaliculata	(Green)	9(16f)T	
Circulaspis	fistulata	(Ferris)	8(13f)T	
Circulaspis	fistulella	Ferris		1
Clavaspis	covilleae	Ferris		1
Clavaspis	crypta	Howell & Tippins		2
Clavaspis	dentata	Ferris	1(1f)T	
Clavaspis	disclusa	Ferris	1(2f)T	
Clavaspis	herculeana	(Doane & Hadden)		6
Clavaspis	pedilanthi	(Ferris)	1(1f)T	
Clavaspis	subfervens	(Green)		1
Clavaspis	texana	Ferris		1
Clavaspis	ulmi	(Johnson)		39
Comstockiella	sabalis	(Comstock)		2

Contigaspis	kochiae	Borchsenius		1
Contigaspis	monticola	Borchsenius		1
Cornuaspidis	chinensis	(Chamberlin)		1
Crassaspidiotus	takahashii	Takagi	1(2f)T	
Crassaspidis	multipora	(Ferris)		1
Cupidaspidis	beshearae	Howell & Tippins	3(3f)P	
Cupidaspidis	cupressi	(Coleman)		1
Cynodontaspidis	piceae	Takagi		2
Dactylaspidis	acuta	(Ferris)	1(1f)T	
Dactylaspidis	crotonis	(Cockerell)		1
Dactylaspidis	dactylifera	Ferris	1(2f)T	
Dactylaspidis	serratiloba	Ferris	1(1f)T	
Dentachionaspidis	lounsburyi	(Leonardi)		1
Dentachionaspidis	quadriscopiosa	Munting	1(2f)T	
Dentachionaspidis	ritchiei	(Laing)		1
Diaspidiotus	aesculi	(Johnson)		1
Diaspidiotus	africanus	(Marlatt)		1
Diaspidiotus	ancylus	(Putnam)		34
Diaspidiotus	bumeliae	Ferris	1(1f)T	
Diaspidiotus	caryae	Kosztarab		5
Diaspidiotus	coniferarum	(Cockerell)		1
Diaspidiotus	crescentiae	(Ferris)	1(1f)T	
Diaspidiotus	crystallinus	(Ferris)	1(1f)T	
Diaspidiotus	ehrhorni	(Coleman)		1
Diaspidiotus	liquidambaris	(Kotinsky)		11
Diaspidiotus	loranthi	(Laing)		1
Diaspidiotus	mccombi	McKenzie		8
Diaspidiotus	naracola	Takagi		1
Diaspidiotus	osborni	(Newell & Cockerell)		44
Diaspidiotus	prunorum	(Laing)		1
Diaspidiotus	spiraspiniae	Takagi	1(2f)T	
Diaspidiotus	uvae	(Comstock)		33
Diaspidiotus	wuenni	(Lindinger)		2
Diaspidiotus	undetermined			11
Diaspis	aequalis	Munting	1(2f)T	
Diaspis	boisduvalii	Signoret		28
Diaspis	bromeliae	(Kerner)		4
Diaspis	cocois	Lichtenstein		1
Diaspis	conocarpi	McKenzie	1(1f)T	
Diaspis	dignus	Hoke		1
Diaspis	echinocacti	(Bouche)		22
Diaspis	manzanitae	(Whitney)		1
Diaspis	miranda	(Cockerell)		1
Diaspis	parasiti	McKenzie		1

Diaspis	simmondsiae	Ferris	1(1f)T	
Diaspis	undetermined			1
Diastolaspis	novata	Brimblecombe		1
Dinaspis	aculeata	Ferris		1
Discodiaspis	globosa	Munting	2(5f)T	
Duplachionaspis	asymmetrica	Ferris	1(1f)T	
Duplachionaspis	boquetensis	Ferris	1(2f)T	
Duplachionaspis	erianthi	Boichsenius		1
Duplachionaspis	graminis	(Green)		1
Duplachionaspis	litoralis	Ferris	1(2f)T	
Duplachionaspis	monodi	(Rungs)		1
Duplaspidiotus	carptellus	Brain		1
Duplaspidiotus	claviger	(Cockerell)		1
Duplaspidiotus	incisus	Ferris	1(1f)T	
Duplaspidiotus	tesseratus	(Grandpre & Charmoy)		7
Dynaspidiotus	britannicus	(Newstead)		= 2
Dynaspidiotus	regius	(Brain)		1
Entaspidiotus	lounsburyi	(Marlatt)		1
Epidiaspis	leperii	(Signoret)		5
Epidiaspis	montana	(Cockerell)		1
Epidiaspis	salicicola	Ferris		1
Eucleaspis	echinata	Munting		1
Eucornuaspis	kuwacola	(Kuwana)		1
Eulaingia	stenophyllae	(Laing)		1
Exuviaspis	enceliae	Ferris		1
Faureaspis	faurei	(Brain)		1
Ferrisidea	magna	(Ferris)	1(2f)T	
Fiorinia	externa	Ferris		8
Fiorinia	fioriniae	(Targioni-Tozzetti)		10
Fiorinia	japonica	Kuwana		9
Fiorinia	pinicola	Maskell		1
Fiorinia	theae	Green		12
Fissuraspis	ulmi	(Hoke)		1
Formosaspis	pallida	Munting	2(2f)T	
Froggattiella	penicillata	(Green)		2

Furcaspis	biformis	(Cockerell)		6
Furchadaspis	zamia	(Morgan)		1
Galeraspis	eugeniae	Mamet	6(16f)T	
Genaparlatoria	pseudaspidiotus	(Lindinger)		1
Geodiaspis	arundinariae	Tippins & Howell	2(3f)TT	
Gymnaspis	aechmeae	Newstead		1
Haliaspis	distichlii	(Ferris)	1(3f)T	
Haliaspis	nakahari	Howell	3(3f)P	
Haliaspis	spartinae	(Comstock)		2
Haliaspis	uniolae	Takagi		2
Hemiberlesia	candidula	(Cockerell)		1
Hemiberlesia	cupressi	(Cockerell)		1
Hemiberlesia	diffinis	(Newstead)		18
Hemiberlesia	ignobilis	Ferris		1
Hemiberlesia	lataniae	(Signoret)		100
Hemiberlesia	mittchelli	(Marlatt)		1
Hemiberlesia	palmae	(Cockerell)		5
Hemiberlesia	pitysophila	Takagi	1(2f)T	
Hemiberlesia	popularum	(Marlatt)		2
Hemiberlesia	quercicola	(Ferris)	1(1f)T	
Hemiberlesia	rapax	(Comstock)		8
Hemiberlesia	sinensis	Ferris	1(1f)T	
Hemiberlesia	undetermined			7
Hemigymnaspis	brayi	Davidson & Miller	1(4f)P	
Howardia	biclavis	(Comstock)		16
Hybridaspis	producta	Green	1(1f)T	
Hypaspidiotus	jordani	(Kuwana)	2(3f)T	
Insulaspis	corni	(Takagi)		1
Insulaspis	japonica	(Kuwana)		1
Insulaspis	kamakurensis	(Kuwana)		1
Ischnaspis	longirostris	(Signoret)		2
Japaspidiotus	cedricola	Takagi		1
Kuwanaspis	howardi	(Cooley)		1
Kuwanaspis	linearis	(Green)		3
Kuwanaspis	pseudoleucaspis	(Kuwana)		1
Kuwanaspis	vermiformis	(Takagi)		1
Kuwanaspis	undetermined			1
Lapazia	obscura	Howell & Beshear	2(2f)P	

Ledaspis	distincta	(Leonardi)		1
Lepidosaphes	beckii	(Newman)		13
Lepidosaphes	buzenensis	Kuwana		1
Lepidosaphes	camelliae	Hoke		9
Lepidosaphes	celtis	Kuwana		1
Lepidosaphes	conchiformioides	Borchsenius		1
Lepidosaphes	conchiformis	(Gmelin)		2
Lepidosaphes	destefanii	Leonardi		1
Lepidosaphes	gloverii	(Packard)		2
Lepidosaphes	kirgisica	Borchsenius		1
Lepidosaphes	machili	(Maskell)		3
Lepidosaphes	mackieana	McKenzie	1(1f)P	
Lepidosaphes	marginata	Ferris	11(13f)TT	
Lepidosaphes	newsteadi	Sulc		6
Lepidosaphes	noxia	McKenzie	1(1f)T	
Lepidosaphes	pallida	(Maskell)		4
Lepidosaphes	pini	(Maskell)		2
Lepidosaphes	salicina	Borchsenius		1
Lepidosaphes	sciadopitysi	McKenzie		11
Lepidosaphes	tokionis	(Kuwana)		2
Lepidosaphes	ulmi	(Linnaeus)		200
Lepidosaphes	yanagicola	Kuwana		15
Lepidosaphes	undetermined			7
Leucaspis	pini	(Hartig)		2
Leucaspis	portaeaeureae	Ferris		1
Leucaspis	pusilla	Low		4
Leucaspis	riccae	Targioni-Tozzetti		1
Leucaspis	undetermined			3
Lindingaspis	equipora	Munting	1(1f)T	
Lindingaspis	ferrisi	McKenzie		1
Lindingaspis	floridana	Ferris	1(1f)T	
Lindingaspis	fusca	McKenzie	1(1f)T	
Lindingaspis	greeni	(Brain & Kelly)		1
Lindingaspis	optima	(Silvestri)		1
Lindingaspis	piceus	(Malenotti)		1
Lindingaspis	rossi	(Maskell)		4
Lindingaspis	setiger	(Maskell)	2(2f)T	
Lindingaspis	=Aspidiotus kelloggi	Kuwana		
Lindingaspis	tingi	McKenzie		1
Lineaspis	junipericola	Borchsenius		1
Lineaspis	striata	(Newstead)		1
Lineaspis	thelophora	Borchsenius	1(1f)T	
Lopholeucaspis	japonica	(Cockerell)		54
Lopholeucaspis	menoni	Borchsenius		1
Lopholeucaspis	undetermined			8
Malleolaspis	mammata	Ferris		1
Malleolaspis	sculpta	Ferris	1(1f)T	

Mancaspis	lunata	Ferris	1(2f)T	
Mancaspis	piriformis	Ferris	1(2f)T	
Melanaspis	aliena	(Newstead)		1
Melanaspis	bromeliae	(Leonardi)		1
Melanaspis	cortcosa	(Brain)		1
Melanaspis	deliquescens	Ferris	1(1f)T	
Melanaspis	elaeagni	McKenzie	1(1f)T	
Melanaspis	glomerata	(Green)		1
Melanaspis	inopinata	(Leonardi)		1
Melanaspis	jamaicensis	Davidson		1
Melanaspis	lilacina	(Cockerell)		1
Melanaspis	nigropunctata	(Cockerell)		3
Melanaspis	obscura	(Comstock)		107
Melanaspis	odontoglossi	(Cockerell)		1
Melanaspis	paulista	(Hempel)		1
Melanaspis	pedina	Munting	1(1f)T	
Melanaspis	ponderosa	Ferris	5(5f)T	
Melanaspis	smilacis	(Comstock)		3
Melanaspis	squamea	Ferris	1(1f)T	
Melanaspis	tenax	McKenzie	1(2f)T	-
Melanaspis	tenebricosa	(Comstock)		41
Melanaspis	undetermined			9
Microparlatoria	fici	(Takahashi)		1
Mitraspis	heresiarcha	Ferris	1(1f)T	
Mixaspis	bambusicola	(Takahashi)	12(23f)T	
Mohelnaspis	massiliensis	(Goux)		5
Mohelnaspis	moravica	Sulc	11(23f)T	
Moraspis	euphorbiae	(Brain)		1
Morganella	cueroensis	(Cockerell)		1
Morganella	longispina	(Morgan)		1
Mycetaspis	apicata	(Newstead)		1
Mycetaspis	juventinae	Lepage & Giannotti	1(1f)TT	
Mycetaspis	personata	(Comstock)		1
Mycetaspis	sphaerioides	(Cockerell)		1
Namibia	spinosa	Munting		1
Neomorgania	eucalypti	(Maskell)		1
Neoparlatoria	formosana	Takahashi		1
Neopinnaspis	harperi	McKenzie		1
Neoselenaspidus	silvaticus	(Lindinger)		1

Nicholiella	bumeliae	Ferris	2(4f)T	
Nicholiella	digitata	Ferris	1(2f)T	
Nilotaspis	halimodendronis	Borchsenius & Matesova		1
Nilotaspis	halli	(Green)		1
Nilotaspis	isis	(Hall)	1(1f)T	
Niveaspis	cattleyae	LePage		1
Niveaspis	fenestrata	Ferris	9(12)T	
Niveaspis	gracilis	Ferris	1(2f)T	
Niveaspis	ilicis	(Hoke)		1
Niveaspis	tenuis	Ferris	1(2f)T	
Niveaspis	vulcania	Ferris	9(14f)T	
Nuculaspis	abietis	(Schrank)		5
Nuculaspis	californica	(Coleman)		4
Nuculaspis	pseudomeyeri	(Kuwana)		1
Octaspidiotus	araucariae	Adachi & Fullaway		1
Octaspidiotus	subrubescens	(Maskell)		1
Odonaspis	greeni	(Cockerell)		6
Odonaspis	lingnani	Ferris	1(2f)T	
Odonaspis	litorosa	Ferris	11(20f)T	2
Odonaspis	minima	Howell & Tippins	2(2f)P	
Odonaspis	ruthae	Kotinsky		11
Odonaspis	saccharicaulis	Zehntner		3
Odonaspis	secreta	(Cockerell)		2
Odonaspis	shizostachyi	Cockerell & Robinson	5(7f)P	
Odonaspis	undetermined			5
Opuntiaspis	carinata	(Cockerell)		2
Opuntiaspis	philococcus	(Cockerell)		1
Palinaspis	quohogiformis	(Merrill)		1
Pallulaspis	ephedrae	Ferris	1(2f)T	
Pallulaspis	retamae	(Hall)	1(1f)T	
Paracupidaspis	wilkeyi	Howell & Tippins	2(2f)P	
Parainsulaspis	bladhaie	(Takahashi)		1
Parainsulaspis	esakii	(Takahashi)		1
Parainsulaspis	euryae	(Kuwana)	3(3f)P	
Parainsulaspis	glaucae	(Takahashi)		1
Parainsulaspis	piniphila	(Borchsenius)		3
Parainsulaspis	smilacis	(Takagi)	1(1f)P	
Paraonidiella	cladii	(Maskell)		1
Parlatoreopsis	longispinus	(Newstead)		1
Parlatoria	blanchardi	(Targioni)		2
Parlatoria	boycei	McKenzie	1(2f)P	

Parlatoria	camelliae	Comstock		8
Parlatoria	cinerea	Doane & Hadden	1(2f)T	6
Parlatoria	citri	McKenzie		1
Parlatoria	crypta	McKenzie		1
Parlatoria	cupressi	Ferris	1(1f)T	
Parlatoria	fluggeae	Hall		1
Parlatoria	morrisoni	McKenzie	1(1f)P	
Parlatoria	oleae	(Colvee)		4
Parlatoria	olgae	Borchsenius	2(4f)T	
Parlatoria	pergandii	Comstock		7
Parlatoria	piceae	Takagi		1
Parlatoria	pittospori	Maskell		1
Parlatoria	proteus	(Curtis)		5
Parlatoria	theae	Cockerell		12
Parlatoria	vandae	McKenzie	1(1f)T	
Parlatoria	yunnanensis	Ferris	1(1f)T	
Parlatoria	ziziphus	(Lucas)		2
Pelliculaspis	durapyga	Ferris	1(1f)T	
Phaulaspis	hakeae	(Maskell)		1
Phenacaspis	eugeniae	(Maskell)		2
Phenacaspis	inday	(Banks)		1
Phenacaspis	pellucida	Robinson	1(1f)T	
Phenacaspis	trochodendri	Takahashi		1
Pinnaspis	aspidistrae	(Signoret)		7
Pinnaspis	buxi	(Bouche)		3
Pinnaspis	indivisa	Ferris	1(2f)T	
Pinnaspis	strachani	(Cooley)		13
Pinnaspis	uniloba	(Kuwana)		1
Pinnaspis	undetermined			4
Pinomytilus	pseudotsugae	(Takahashi)		1
Platycoccus	tylocephalus	Stickney		1
Poliaspis	cycadis	Comstock		1
Praecocaspis	diversa	Ferris	1(1f)T	
Prodigiaspis	septunx	Ferris	1(2f)T	
Protargionia	larreae	Leonardi		1
Protodiaspis	agrifoliae	Essig		1
Protodiaspis	cinchonae	McKenzie	1(1f)P	
Protodiaspis	colimae	Ferris	1(2f)T	
Protodiaspis	emoryi	Ferris	1(1f)T	
Protodiaspis	infidelis	Ferris		1
Protodiaspis	lagunae	Ferris	1(1f)T	
Protodiaspis	praetexta	Ferris	1(2f)T	
Protodiaspis	signata	Ferris	1(1f)T	

Pseudaonidia	cingulata	(Froggatt)		1
Pseudaonidia	duplex	(Cockerell)		5
Pseudaonidia	paeoniae	(Cockerell)		33
Pseudaonidia	trilobitiformis	(Green)		3
Pseudaulacaspis	cockerelli	(Cooley)		12
Pseudaulacaspis	major	(Cockerell)		1
Pseudaulacaspis	pentagona	(Targioni-Tozzetti)		115
Pseudaulacaspis	prunicola	Maskell		111
Pseudaulacaspis	takahashi	Ferris		1
Pseudischnaspis	bowreyi	(Cockerell)		1
Pseudischnaspis	longissima	(Cockerell)		1
Pseudodiaspis	elaphrii	Ferris	2(2f)T	
Pseudodiaspis	prosopidis	Ferris	1(1f)T	
Pseudoleucaspis	monticola	Mamet	1(1f)T	
Pseudoparlatoria	elongata	Ferris	1(1f)T	
Pseudoparlatoria	fusca	Ferris	1(1f)T	
Pseudoparlatoria	lentigo	Ferris	1(1f)T	
Pseudoparlatoria	maculata	Ferris	1(1f)T	
Pseudoparlatoria	memorabilis	Ferris	1(1f)T	
Pseudoparlatoria	ostreata	(Cockerell)		1
Pseudoparlatoria	parlatorioides	Comstock		1
Pseudoparlatoria	perparvula	Ferris	1(1f)T	
Pseudoparlatoria	serrulata	Townsend & Cockerell		1
Pseudoparlatoria	tillandsiae	Tippins		1
Pseudotargionia	comata	(Maskell)		1
Pseudotargionia	damara	Munting	1(1f)T	
Pseudotargionia	glandulosa	(Newstead)		1
Pseudotargionia	kalaharica	Munting	1(1f)T	
Pudaspis	newsteadi	(Leonardi)		1
Quadraspidiotus	forbesi	(Johnson)		47
Quadraspidiotus	gigas	(Thiem & Gerneck)		4
Quadraspidiotus	juglansregiae	(Comstock)		80
Quadraspidiotus	labiatarum	(Marchal)		4
Quadraspidiotus	lenticularis	(Lindinger)		2
Quadraspidiotus	macroporanus	Takagi	1(5f)T	
Quadraspidiotus	marani	Zahradnik		2
Quadraspidiotus	ostreaeformis	(Curtis)		18
Quadraspidiotus	paraphyses	Takagi	1(3f)T	
Quadraspidiotus	perniciosus	(Comstock)		52
Quadraspidiotus	pyri	(Lichtenstein)		1
Quadraspidiotus	taxodii	Ferris		6
Quadraspidiotus	zonatus	(Frauenfelt)		2
Quadraspidiotus	undetermined			8
Quernaspis	insularis	Howell	5(5f)P	

Quernaspis	quercicola	Tippins & Beshear	1
Quernaspis	quercus	(Comstock)	1
Radionaspis	indica	(Marlatt)	1
Rhizaspidiotus	albatus	Borchsenius	1
Rhizaspidiotus	artemisiae	(Hall)	1
Rhizaspidiotus	dearnessi	(Cockerell)	1
Rhizaspidiotus	donacis	(Leonardi)	1(2f)T
Rhizaspidiotus	graminis	Borchsenius	1
Rhizaspidiotus	povlaskii	Borchsenius	1
Rolaspis	carissae	(Cockerell)	1
Rolaspis	euryopis	Williams	1(1f)T
Rolaspis	incisa	Munting	1(1f)P
Rolaspis	lounsburyi	(Cooley)	1
Rolaspis	spiculata	(Hall)	1
Rugaspidiotinus	fuscitatis	(Ferris)	1(2f)T
Rugaspidiotus	arizonicus	(Cockerell)	2
Rugaspidiotus	nebulosus	Ferris	10(21f)T
Rugaspidiotus	sculpturatus	Ferris	1(1f)T
Rungaspis	arcuata	Munting	1(2f)T
Salicicola	kermanensis	(Lindinger)	1
Schizaspis	lobata	Cockerell & Robinson	1(1f)T
Selenaspidopsis	browni	Nakahara	1(1f)P
Selenaspidus	albus	McKenzie	1(1f)T
Selenaspidus	articulatus	(Morgan)	12
Selenaspidus	griqua	(Brain)	1
Selenaspidus	latus	Munting	1(1f)T
Selenaspidus	pertusus	Brain	1
Selenaspidus	rubidus	McKenzie	1(1f)P
Selenomphalus	euryae	(Takahashi)	1
Separaspis	capensis	(Walker)	1
Situlaspis	atriplicis	(Ferris)	1(1f)T
Situlaspis	daleae	Ferris	1
Situlaspis	ruelliae	(Ferris)	11(21f)T
Situlaspis	yuccae	(Cockerell)	1
Spinaspidiotus	fissidens	(Lindinger)	1
Stramenaspis	kelloggi	(Coleman)	1
Syngenaspis	parlatoriae	Sulc	11(23f)T

Targionia	bigeloviae	(Cockerell)		1
Targionia	vitis	Signoret		2
Targionia	yuccarum	(Cockerell)		1
Tecaspis	angularis	Munting	1(2f)T	
Thysanaspis	acalyptus	Ferris	1(1f)T	
Thysanofiorinia	nephelii	(Maskell)		1
Unachionaspis	tenuis	(Maskell)		1
Unaspis	citri	(Comstock)		6
Unaspis	euonymi	(Comstock)		91
Unaspis	yanonensis	(Kuwana)		1
Unaspis	undetermined			10
Velataspis	cornigera	Ferris	8(12f)T	
Velataspis	dentata	(Hoke)		2
Velataspis	mimosarum	(Cockerell)		1
Versiculaspis	agathosmae	Munting	1(1f)P	
Vinculaspis	inclusa	(Ferris)	1(1f)T	
Vinculaspis	laniata	(Ferris)	1(1f)T	
Vinculaspis	virgata	(Ferris)	1(1f)T	
Xanthophthalma	concinnum	Cockerell & Parrott		5
Xerophilaspis	prosopidis	Cockerell		3
Yomaspis	ventropora	(Munting)		1

RECENT LITERATURE

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I wish again to express my sincere appreciation to Mrs. Helen Proctor for preparing the first draft of this list of publications.

The following publications are those received since the last "Scale" was sent out in December 1984. The list also includes references gathered from a "current awareness" computerized literature search provided by the U.S. Department of Agriculture. If you are aware of papers published in 1984-1985 that are not included in this issue or the previous one, please let me know. Please continue to send reprints of your papers for assurance of inclusion in the "Scale".

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